

The process of the method for processing account information using network according to the present invention will be described.

First, for embodying the method for processing account information according to the present invention, as mentioned above by the figure 1, the central server(10) for controlling the entire steps and databases(16)(18) cooperating with the central server(10) and storing the information of the customer and part time worker are needed. The central server(10) includes an account work management unit(12) for controlling the entire steps according to the present invention and an verification program(14) for verifying an customer and part time worker and the central server(10) transmits and receives the information with the customer server(40) and the part time worker terminal(30)

Since the customer information and part time worker information stored in the database(16)(18) were described in the above statements, the description thereof will be omitted.

The other side, for embodying the method for processing account information according to present information, as mentioned above, the website to notify trust information of the customer and application information of the part time worker and to be accessed by wired or wireless through the central server(10), customer server(40) and the part time worker terminal(30) is also needed.

Figure 1 is a flow chart of the method for processing account information with above mentioned system.

The method for processing account information using network according to the present invention includes a customer and part time worker verification step(S10), an account work trust step(S20), an application for account work step(S30), an part time

worker selection step(S40), an account information storing step(S50), an account information review step(S60), an electronic payment step(S70), and an part time worker's level determination step(S80).

The customer and part time worker verification step(S10) is a step for checking
5 whether the information for verification inputted by customer and part time worker connected with the website(20) are matched with the customer's and part time worker's information stored in the database(16)(18) of the central server system (10), for thereby verifying the customer and part time worker.

When the customer is connected with the website(20) and inputs a customer's
10 information, the central server(10) reads the customer server(40) and compares the inputted individual information with the information stored in the customer information database(16) and checks whether the customer connected with the website(20) is a member or not.

When the customer requests a customer verification to the central server(10) for
15 starting the account work, the verification program(14) of the central server(10) generates a customer's ID number and endows the customer with it for protecting the disclosing of the customer's information. Therefore, it becomes possible that customer trust the account work in the website(20) using the customer's ID number, not the customer's actual name and disclosing of his information can be prevented. The customer's ID number can be

generated by combining the serial number based on a sequence of customer who requests the verification, verification date, and name of customer. For example, the serial number and verification date and first two digits of customer's English name can be combined.

In case the part time worker connects with the website(20) and inputs individual
5 information, the central server(10) compares the inputted individual information with the information stored in the part time worker database(18) and checks whether the part time worker connected with the website(20) is a member or not.

The account work trust step(S20) is a step for listing the account work requested by the customer on the website(20). The website(20) notifies a list of entrusted account
10 work, desired completion date, requested part time worker's level and other information needed for performing the account work. The related evidence document image information list is also included in the list of the account work.

Therefore, the customer have to store the evidence document image information needed for processing the account work into the customer server(40) before the account
15 work is listed in the website(20). The evidence document image information is an image file made by scanning the evidence document related with the account work using a scanner or by photographing the same using a digital camera and is stored in a certain drive of the customer server(40).

In order to quickly entrust account work that is expected to generate in the near

future, the customer can reserve account work trust by listing other information such as the account work entrusting date, desired completion date, expected need time, terms of part time worker, etc. In this case, the customer will be provided with the part time workers at the desired time earlier than the other customers.

5 The account work requested by the customer is fundamentally generating the evidence document text information from the evidence document image information and reviewing the errors for thereby generating a text information list. According to the account work handling level of the part time worker, the professional account work like drawing up account note is included to the above stated account work requested by the customer

10 Application for account work step(S30) is a step in which the member registered as the part time worker through the website(20) requests the distribution of the account work. The part time worker requests the distribution of the account work together with the information such as possible period for the account work process, work time and work amount. The part time worker can previously register the period for processing the account
15 work, work time, work amount, etc. and can make a reservation for the account work process. In this case, the account work management unit (12) first distributes the account work to the above part time worker.

In the part time worker selection step(S40), the account work management unit(12) of the central server(10) selects the part time workers who will dispose the

account work listed by the customer with reference to information of the account work listed by the customer and application information for account work of the part time worker.

Desired completion date of the account work listed by the customer is compared
5 with the possible completion period and work time of the part time worker. The part time worker who first requested the account work is selected as the part time worker to do the account work.

In the case that the customer or part time worker makes a reservation using the reservation system, the account work or part time worker are first assigned.

10 In the case that the customer sets an additional term such as the level of the part time worker, when selecting the part time workers, the level of the part time worker is considered, and the account work is first assigned to the part time worker who satisfies the above requirements.

Listing the account work, the customer can designate a certain part time worker to
15 do the account work. Namely, it is possible to designate a certain part time worker who processed the account work of a corresponding customer before or a certain part time worker among the part time workers requesting the distribution of the current account work in the website(20) for thereby effectively performing the customer's account work.

The part time worker who was selected for doing the account work listed by the

customer will receive an assignment and the lists of the account work to be done from the account work management unit(12). In the case that the part time worker requests the process of the account work, the account work management unit(12) transfers the information of the customer server(40) to the part time worker for the part time worker to
5 be connected with the customer server(40).

The account work information storing step(S50) is a step in which the account work requested by the customer is processed and stored in the customer server(40) as the part time worker is connected with the customer server(40).

The part time worker is connected with the customer server(40) through the
10 internet network of the website(20) using the information of the customer server(40) transmitted from the account work management unit(12) of the central server(10). The text-based account information is generated from the evidence document image information by driving the account process program(42) stored in the customer server(40).
When the part time worker drives the account process program(42) and selects a
15 corresponding evidence document image information, the evidence document recognition program(44) is automatically driven, and the evidence document image information stored in the customer server(40) is converted into the evidence document text information. The process of converting the evidence document image information into the evidence document text information is automatically performed based on the processes of Figure 4.

The above processes were described in the above. The evidence document text information is stored in the text-based account information.

The account work process method that the part time worker performs using the account process program(42) will be described. The drive/path is designated using the second region of Figure 5, and the evidence document image information file to be processed among the scanned evidence document image information is selected. The selected evidence document image information is automatically converted into the evidence document text information by the evidence document recognition program(44) and this is displayed in the fourth region(424) in one line or several lines based on the number of the evidence document image information. When a certain line is selected among the lists, the text information content of a certain line is displayed in the third region(423). The contents of the text information are editable. The evidence document image information of the selected line is displayed in the first region(421). The part time worker checks whether the image information is accurately converted into the text information. In the case that there is an error in the reviewing step, the contents of the third region(423) is edited and corrected. When the verification with respect to the accuracy of the text information conversion of the image information is completed, a result of the same is stored into one file as the account information. Namely, a plurality of evidence document image information is listed as the evidence document text information and is stored in the

account information file.

In the case that the entrusted account work includes additional request such as drawing up an account note, the part time worker performs a designation needed for the account process (journalizing) in the fifth region(425) and converts the contents of each
5 line of the list into an account note. The account process is performed based on journalizing designation with respect to the account information in which the conversion is completed. The necessary designation represents a lump designation or individual designation. The text information of the third region(423) is converted into the account note based on the designated journalizing form and is stored as the account process
10 information.

When the part time worker finishes the process of the assigned account work, the generated account information or account process information are stored in the account information database(48) of the customer server(40), and the connection with the customer server(40) is ended. The lists and time of the account work processed on the website(20)
15 are stored.

The account information reviewing step(S60) is a step in which the customer reviews whether the account work is properly processed or not with the account information that the part time worker processed and stored.

When the part time worker finishes the account work requested by the customer

and inputs completed account work into the central server(10), the central server(10) informs the customer of the completion of the account work. The customer receives the completion notice and review the account information stored in the account information database(48) of the customer server (40) by driving the account process program(42). At
5 this time, the customer may review the entire portions of the processed account information or may sample a certain amount of evidence document image information. As a result of the review by the customer, if there are many errors, the customer transfers the result of the review to the central server(10) and requests a reprocess of the account work. The central server(10) requests a reprocess with respect to the account work that needs a
10 reprocess, to the part time worker who processed the account work and the above account is not classified as the finished account work. As a result of the review by the customer, if there is a small error, the customer directly corrects the errors and stores again.

As a result of the review by the customer, if there is not error, the customer transfers the completion of the review with respect to the account work and the process
15 completion of the account work to the central server(10). When the customer transfers a result of the review, the customer may send an evaluation with respect to the work performance of the part time worker who did the account work. A result of the work performance of the part time worker is used as a basic material for determining the level of the part time worker performed by the central server(10).

The customer can register the review work of the account information review step(S60) with the website(20) as a separate account work like a new account work, so that other part time workers can perform the review work.

In the electronic payment step(S70), the central server(10) that receives a result of
5 the review by the customer and a process completion of a corresponding account work requests the payment of the cost with respect to the payment mean of the customer for thereby performing the payment. The above payment is performed by requesting the payment to the customer using the wired or wireless network in the central server(10).

The central server(10) pays money to the part time workers who did the account
10 work. The method for giving the part time workers money may be classified into a method of paying money for each case of the account work, a method of paying money at one time based on the accumulated performance during a certain period. Which method would be selected is dependent on a contract with the part time worker.

In the part time worker level determination process(S80), when the account work
15 management unit(12) finishes the account work requested by the part time worker, the levels of the part time workers are determined based on the information such as part time worker's account work processing performance, account knowledge, etc. In the level determination of the part time worker, the level of the part time worker may be determined when the accumulated points exceed a certain point by accumulating the points given to

the part time workers when the part time workers do the account work and finish the same.

The points of the part time workers are determined based on the basic points per account work and are decreased or increased by providing weights based on the difficulty or amount of the account work and work time. In addition, the customer evaluates the account work done by the part time worker, and a result of the evaluation is stored in the information of the part time worker and is reflected to the level determination process of the part time worker. When the customer provides a customer evaluation point exceeding a customer basic point with respect to the account work done by the part time worker, a difference between the customer basic point and the customer evaluation point is reflected to the evaluation point. In addition, a certain weight may be provided to the evaluation point in accordance with the part time worker's knowledge with respect to the account work. The level of the part time worker is classified into a common member and a high class member. The common member and high class member may be classified into a detailed level. The levels of the part time workers are used as a basic material about determining the payment to the account work process and assignment of the account work in the future. Therefore, it is possible to pay money differently in accordance with the levels of the part time workers. When a certain part time worker continuously maintains a good level, increased money may be given to the part time worker as compared to other part time workers based on an incentive system.

Brief Description of the Drawings

The present invention will become better understood with reference to the
5 accompanying drawings which are given only by way of illustration and thus are not
limitative of the present invention, wherein;

Figure 1 is a diagram illustrating the construction of a system of an account
information processing method using a wired or wireless communication network
according to the present invention;

10 Figure 2 is a diagram illustrating the construction of a central server of Figure 1;

Figure 3 is a diagram illustrating the construction of a customer server of Figure 1;

Figure 4 is a flow chart of an account information generating process based on an
account process program and an evidence document recognition program;

Figure 5 is a diagram illustrating the construction of a work screen displayed on a
15 terminal of an part time worker; and

Figure 6 is a flow chart of an account process method using a wired or wireless
communication network according to the present invention.

<Descriptions of reference numerals of major elements of the drawings>

40

10 – central server

20 – website

30 – customer server

40 – part time worker

Preferred Embodiment

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The preferred embodiments of the account work processes according to the present invention will be described.

The tax/account service office A that is a member registered in the account processing method using the wired and wireless communication network according to the present invention receives a member verification on the website(20) cooperating with the central server(10) of the mediator and lists the contents of the account work to be requested to the part time worker, the evidence document image information list, a desired completion time, and other request information on the website(20). At this time, the customer converts the evidence documents needed for performing the account work into an image file using a scanner or digital camera, and the evidence document image information is stored in the evidence document information database (46) in the customer server(40). When the customer makes a reservation for requesting the account work that will be produced within a short period, the evidence document image information is generated and stored by the reserved date.

The part time worker member is connected with the website(20) and checks the account work listed in the website(20) and requests the assignment of the account work to the central server (10) for thereby receiving the account work. The account work management unit(12) of the central server(10) distributes the account work or part time worker in a sequence of the list or request in the case that there are a plurality of account works requested by the customer or a plurality of account work requests by the part time workers. The central server(10) compares the account work completion date and work amount requested by the customer and the work possible period and work time of the part time worker. The account work is distributed to the part time worker who can complete the account work within a requested date. The central server(10) computes the estimated time needed for processing the account work in consideration with the time needed for processing the account work corresponding to the amount of the evidence document to be processed and one evidence document. Therefore, the central server(10) selects the part time workers who can satisfy the customer's desired completion date by considering the work possible time and work time of the part time workers. The part time worker inputs his ID and password into the part time worker terminal(30) cooperating with the central server(10) and is connected with the central server. The person who first connects as an part time worker inputs a personal ability information and individual information such as account knowledge level, resident registration number, address, telephone number, etc. and

requests his ID and password. Namely, the inherent ID and password of the part time worker are requested for thereby implementing a subscription of the account work and receiving information needed for the request of the account work.

In the case that the customer previously made a reservation, the part time worker
5 is first assigned to the account work of the customer who made the reservation. In the case of the part time worker, the account work is first assigned to the part time worker who made the reservation. The central server(10) transfers the verification information capable of connecting the customer server(40) to the assigned part time worker.

The part time worker who received the account work is connected with the
10 customer server(40) using verification information received from the central server(10). After the part time worker is connected with the customer server(40), the evidence document image information is first checked, and the account process program(42) is driven. When the work is displayed like the work screen of Figure 5, the part time worker who received the account work performs work for converting the evidence document
15 image information into the evidence document text information. When the evidence document image information is selected from the drive of the customer server(40) in which the evidence document image information is stored, the evidence document recognition program(44) is automatically driven, and the evidence document image information is converted into the evidence document text information and is displayed in the document

information list region of the fourth region(424) of the work screen of Figure 5. In addition, the converted document information is separately displayed in the third region(423). The document information displayed in the third region(423) is compared with the content of the evidence document image information. It is checked whether the conversion into the text information is correct or not. If there is an error, the error is corrected. The account information based on the process of the account work is stored in the account information database(48) of the customer server(40), and the connection with the customer server(40) is ended and returned to the website(20). The list of the account work and the process time of the account work are recorded.

When the part time worker reports the completion of the account work, the central server(10) requests the review with respect to the completed account work to the customer (tax/account service office A). The customer reviews a result of the account work when the completion report of the account work is received from the part time worker through the website(20). A result of the review is transferred to the central server(10). If the evaluation by the customer is successful, the central server(10) transfers the contents that the account work is completed to the part time worker through the part time worker terminal.

The central server(10) requests the payment of the cost with respect to the completion of the account work to the customer and pays money to the part time worker. The central server(10) stores a result of the evaluation with respect to the part time worker

and the account work process performance into the part time worker information database(18) of the central server(10). In addition, if it is needed to adjust the level of the part time worker, the level is adjusted and stored.

In the above embodiment of the present invention, the process that the customer's
5 account work is performed by the part time worker on the website(20) cooperating with the central server system(10). The above described process is sequentially performed based on the account work process by one part time worker. The above account work may be performed by a plurality of part time workers. In addition, the account work may be implemented in such a manner that a global-based wired and wireless network connectable
10 with the website(20) cooperating with the central server(10) is constructed. In addition, it is possible to process the account work in any place in which the part time worker terminals(30) are installed for performing the account work using the evidence document image information needed for the process of the account work from the customer server(40). Therefore, in the present invention, it is possible to do an account work using
15 low cost workers in any place on the earth, so that the account work processing method using a network according to the present invention is not limited to the local area. Namely, it is possible to do the account work using a global-based wired or wireless network in any place in the world.

As the present invention may be embodied in several forms without departing

from the spirit or essential characteristics thereof, it should also be understood that the above-described examples are not limited by any of the details of the foregoing description, unless otherwise specified, but rather should be construed broadly within its spirit and scope as defined in the appended claims, and therefore all changes and modifications that
5 fall within the meets and bounds of the claims, or equivalences of such meets and bounds are therefore intended to be embraced by the appended claims.

Industrial Applicability

10 As described above, the part time workers collected on the internet do the account information input work in which the evidence document information needed for the account process in the account work is changed into the text information and is stored. Therefore, the accountant does work only high level accounting work, so that it is possible to increase the productivity of the accountants more than 5 times. Therefore, it is possible
15 to basically overcome the lack of accountants what have been a problem since the end of 1990s. Namely, since it is possible to perform account work more than 5 times using the current accounting manpower, it is possible to overcome the lack of accountants. In addition, in the present invention, since it is possible to use low cost workers in other countries for doing account work, the lack of accountants is overcome.

In the present invention, the process for converting the evidence document image information performed by the part time workers into the evidence document text information is performed using the evidence document recognition program(44), so that it is possible to effectively perform the account work.

5 In the present invention, the part time workers may do account work in any place connectable with the Internet such as home or school, so that the account work is effectively performed.

In addition, the part time workers do account work and receive money and a level based on the performance of the account work. Therefore, the part time workers are first
10 provided with the account work, level-based different money, etc., so that the part time workers can more diligently do the customer's account work, and the customer may be provided with better quality of account work service.

What is claimed is:

1. A method for processing account information using network, the method comprising steps of:

5 verifying a customer or part time worker in which the customer or part time worker who is connected with the website are verified by comparing a customer information or part time worker information inputted with a customer information or part time worker information registered and stored in the database;

entrusting an account work in which an account work trust information of the
10 customer is listed in the website;

applying for an account work process in which an application information for an account work process of the part time worker is listed in the website;

selecting an part time worker in which most suitable part time worker is selected for performing the account work by comparing an account work trust information of the
15 customer with an account work application information of the part time worker; and

storing an account information in which the selected part time worker connected with the account process program of the customer's server through the part time worker's terminal converts the evidence document image information into an account information and stores it in the account information database.

2. The method of claim 1, wherein the said step of storing account information includes:

the step in which the evidence document image information stored in the customer server is converted into an evidence document text information by an evidence document

5 recognition program; and

the step in which the account process program lists the contents of the evidence document text information and generates an account information.

3. The method of either claim 1 or claim 2, wherein the said step of verifying
10 customer includes the step for providing a customer identification (ID) number in which the central server generates a customer ID number and provides to the customer for preventing a revealing of the customer information.

4. The method of either claim 1 or claim 2, further comprising the step of reviewing
15 account information in which the customer reviews the account information stored by the step for storing account information.

5. The method of claim 4, further comprising the step of correcting an account information in which as a result of the review of said account information review step, in

case that there is an error in the account information, the error in the account information is corrected and stored by the account process program.

6. The method of claim 5, further comprising the step of re-entrusting an account work in which as a result of the review of the account information review step, in case that there is an error in the account information stored by the part time worker, said account work is re-entrusted as a new account work on the website.

7. The method of claim 4, further comprising the step of an electronic payment in which the central server that receives a completion of the account work from the customer server requests a cost payment to the customer server through the network, so that the cost payment is performed.

8. The method of claim 7, further comprising the step of determining an part time worker level in which the central server determines an part time worker's level based on an information concerning an part time worker's account work process performance, an account knowledge state, etc.

9. The method of either claim 1 or claim 2, wherein the said evidence document

image information is a digital image file produced in such a manner that a tax bill, credit card receipt, temporarily tax bill, cash register receipt, etc. which are needed for a common account process are scanned using a scanner or are photographed using a digital camera.

5 10. The method of either claim 1 or claim 2, wherein the said account work is converted into one account information file in such a manner that the part time worker lists a plurality of evidence document image information stored in the customer server into an evidence document text information using the account process program for thereby generating one account information file.

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11. The method of claim 10, wherein in the said account work, the listed evidence document text information is account-processed based on the journal form of the account process for thereby generating account process information.

15 12. The method of either claim 1 or claim 2, wherein the said account process program provides an account work screen on the part time worker terminal, and said work screen includes an evidence document image information region, an evidence document text information correcting region, an evidence document text information list, and an account process region.

13. The method of either claim 1 or claim 2, wherein the said step of converting the evidence document image information into an evidence document text information; further comprising the steps of:

recognizing the positions of items such as date, company name, money amount,

5 summary, etc. needed for the account work;

recognizing form lines and text portions in the above position;

recognizing the text portions and a background portion;

thinning by expressing the text portions formed of a thick line into a single line representing the shape; and

10 analyzing the motion and shape of the single line and decoding the text.

14. The method of either claim 1 or claim 2, wherein the said step of selecting the part time worker, a customer's desired account work completion time and the amount of the account work are compared with the part time worker's account work processing possible
15 time and work time for thereby selecting an part time worker who can do the account work.

FIG. 5

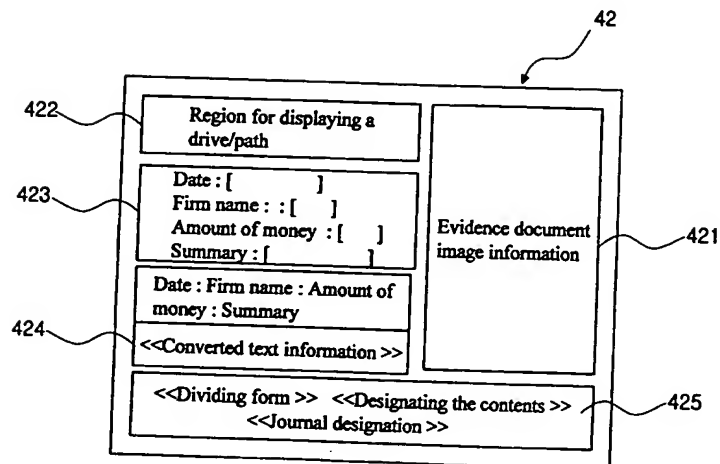


FIG. 6

